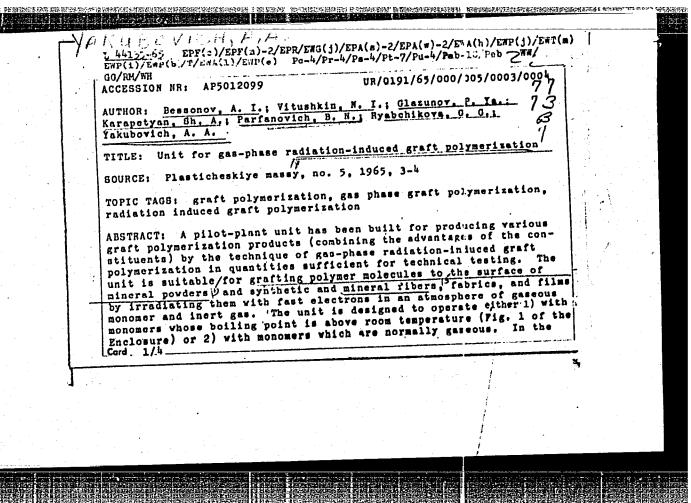
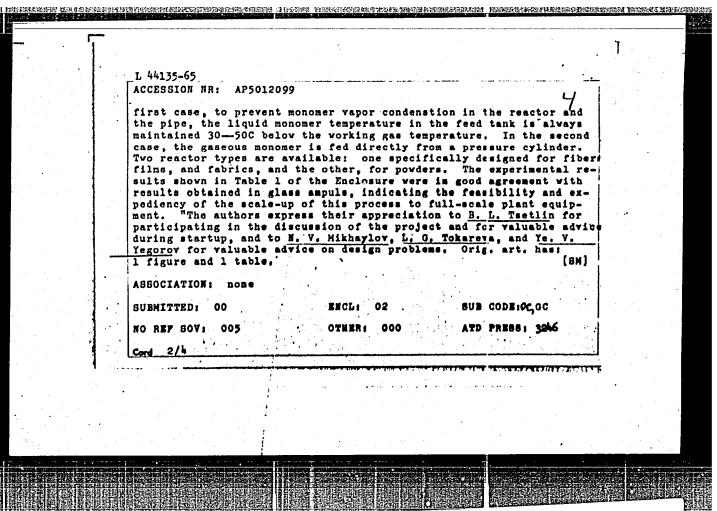
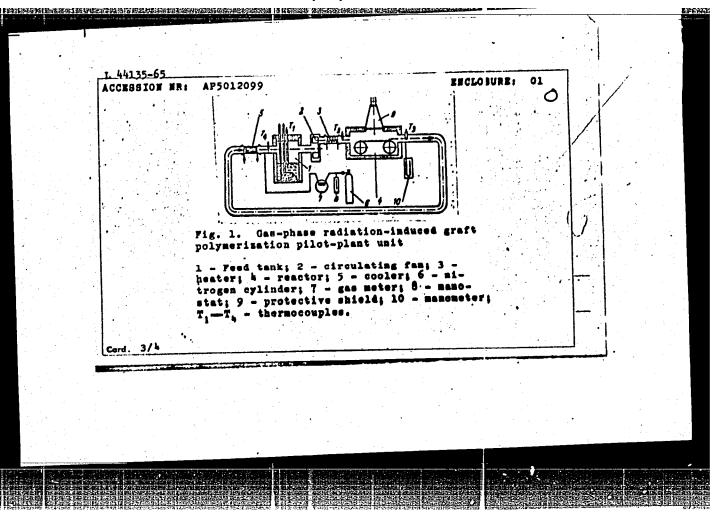
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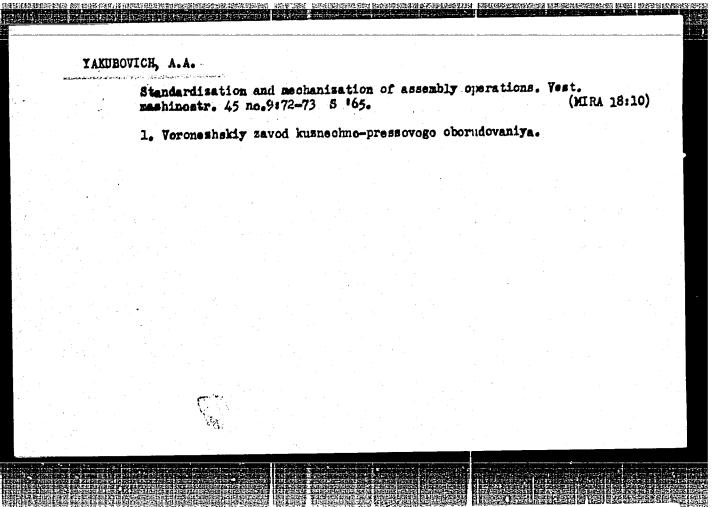






APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962010014-7"

	merization in a pilot-plant unit System studied			s-phase radiation-induced graft poly- Experimental conditions Am't o.				ly-		
	Substrate	Monomer	Current lensity wamp/cm ²	Dose, Mrad	Ponction temp.,	Feed tank temp.,	Vapor pressure im.Hg/		1,	•
	Capron* fabric Lavsan** fabric SiO ₂	acrylonitrile a-vinylpyridine acrylonitrile styrene	0.1 0.1 0.1 0.1	11 10 7 30	75 96 78 120	43 65 43 44	240 50 240 60	17 34 8 10,		
•	*[Polycaprolactum]	erepathalate)]			/		7		 •	
	63B							1		: :
					•				·/	



Measures for the elimination of diphtheria in Gowel' Province. Zdrav. Belor. 6 no. 10:50-53 0 '60. (MIRA 13:10) 1. Glavnyy vrach obleanepidstantsii Gomel'skoy oblasti (for Yakubovich). 2. Zaveduyushchiy epidotdelom obleanepidstantsii Gomel'skoy oblasti (for Yakubovich). (GOMEL' PROVINCE—DIPHTHERIA)

YAKUBOVICH, A.I.; ZAYTSEV, Ye.I.

Radiometric determination of the average percentage of uranium, radium, thorium, and potassium in rock samples. Ragved. 1 okh. nedr 27 no.2:33-37 F '61. (MIRA 14:5)

1. Ministerstvo geologii i okhrany nedr SSSR. (Radioactive prospecting)

s/080/63/036/001/016/026 D226/D307

Yakubovich, A.I. and Sminova, V.K.

AUTHORS:

A study of the structure of polypiperylene polymerized in the presence of complex

TITLE:

Zhurnal prikladnoy khimii, v. 36, no. 1, catalysts

PERIODICAL:

1963, 156 - 160

The present work is a continuation of earlier Btudies (ZhPKh, 35, 1 (1962); 35, 2 (1962)) in which piperylene polymerized in the presence of metallic Li was considered. Purified piperylene was polymerized under conditions described by L.S. Bresler, (who assisted the authors in this phase of the investigation), using (a) Al (iso-C4H9)2Cl + CoCl2 (complex with EtOH) and (b) Al (180-C4H9)3 + TiCl4 as catalyst. The polymer yields for (a) and (b) were respectively 58.5 and 60 %. Since ir spectroscopy does not give a measure of the separate contents of 1.2 and 1.4 does not give a measure of the separate contents of 1.2 and 1.4 linkages, the proportion of 1.2 links was determined by the proportion of 1.4 links was determined by the 1.4 links was determined by 1.4 links

Card 1/2

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962010014-7

A study of the structure ...

S/080/63/036/001/016/026 D226/D307

tions of CH₂COOH and CH₂CHO in the products obtained by reductive decomposition of polymer ozonides. Oxidative decomposition of ozonides was also carried out, analyzing the resultant acids chromotographically. It was found that the polymer contained 1.2, 1.4, -1.4, and 4.1-1.4 portions. The percentages of bonds were as follows: Catalyst (a): 1.2-17.4, 1.4-78.1, (1.2+1.4)-33 cis and 63 trans. Catalyst (b): 1.2-10.5, 1.4-85.9, (1.2+1.4)-61 cis and 36 trans. There are 2 figures and 4 tables.

SUBMITTED:

October 26, 1961

Card 2/2

CIA-RDP86-00513R001962010014-7 "APPROVED FOR RELEASE: 09/01/2001 型是企业的运行的企业的企业的经验的AC中心的经验,由于1920年,于2017年为中国的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业

AUTHOR: Yakubovich, A.L. SOV-132-58-8-8/16 TITLE: Nuclear Geophysical Methods - an Important Reserve for Fur-

ther Increasing the Efficiency of Geological Prospecting and Surveying (Yaderno-geofizicheskiyemetody - vazhnyy rezerv dal'neyshego povysheniya effektivnosti geologicheskikh

poiskov i razvedki)

PERIODICAL: Razvedka i okhrana nedr, 1958, Nr 8, pp 29-37 (USSR)

ABSTRACT: Nuclear geophysical methods are at present used for prospecting and surveying of non-radioactive minerals. The

author describes some of them. For the analysis of the mineral raw material, the author proposes the activating method, based on the formation and subsequent measuring of artificially created radioactive isotopes of the investigated minerals. The sample of such a mineral is exposed to irradiation by nuclear particles until a measurable quantity of radioactive isotopes of this mineral is accumulated, after which the activity of the sample is determined by the usual radiometric method. The study of spectral composition and the intensity of gamma-radiation determines the chemical composition of the neutron trapping substance. This method will especially help the core sampling of bore holes. The

method of the neutronic core sampling is based on the ex-Card 1/2 posure of the rock to the fast neutrons and on the measuring

SOV-132-58-8-8/16

Nuclear Geophysical Rethods - an Important Reserve for Further Increasing the Efficiency of Geological Prospecting and Surveying

of the density of thermic neutrons, or on the measuring of secondary gamma radiation arising from neutrons trapped by nuclei of elements composing the mineral. The "roentgen-radiometric" method is based on the excitation of the characteristic radiation of atoms of investigated minerals by primary nuclear radiation and on the subsequent analysis of this radiation by a special radiometric apparatus. Special devices must be manufactured in order to apply these methods in different fields of prospecting and surveying. There are 2 diagrams, 1 graph and 3 references, 7 of which are Soviet and 1 English.

ASSOCIATION:

Ministerstvo geologii i okhrany medr SSSR (The Ministry of Geology and Conservation of Mineral Resources)

- 1. Minerals--Analysis 2. Radioisocopes--Applications
- 3. Spectrographic analysis -- Applications

Card 2/2

CIA-RDP86-00513R001962010014-7 "APPROVED FOR RELEASE: 09/01/2001

YA Kubovich, H.L

SUBJECT:

USSR/Luminescence

48-4-48/48

AUTHOR:

Yakubovich A.L.

TITLE:

Application of Scientillation Counters in Radiometric Equipment for Searching and Surveying Radioactive Ore Fields (Primeneniye staintillyatsionnykh schetchikov v radiometricheskoy apparature dlya poiskov i razvedki mestorozhdeniy radioaktivnykh rud)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Seriya Pizicheskaya, 1957, Vol 21,

#4, pp 636-640 (USSR).

ABSTRACT:

In order to search for and survey deposits of radioactive ores, various radiometric devices have been designed and manufactured by Soviet industry. Up to recently, this equipment used the ionization principle of investigating radioactive radiation, which has many intrinsic drawbacks.

Therefore, efforts were concentrated on designing new equipment making use of the scintillation principle.

The first sample of survey device with a scintillation counter using a naphtalene-anthracene crystal and with a photoelectronic amplifier of the FEU-19 type was constructed in 1951.

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APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962010014-7"

48-4-48/48

TITLE:

Application of Scientillation Counters in Radiometric Equipment for Searching and Surveying Radioactive Ore Fields (Primeneniye staintillyatsionnykh schetchikov v radiometricheskoy apparature dlya poiskov i razvedki mestorozhdeniy radioaktivnykh rud)

In the process of improvement in 1952 an analyzing scintillation device of the LAU-52 type was constructed for rapid quantitative determinations of radioactivaty of powder samples in laboratories. At present, this device is manufactured by the industry under the name of "LAS".

In 1953, a highly-sensitive and high-speed equipment using scintillation counters of gamma-quants with automatic recording of its indications was developed for surveying uranium ores from aircraft.

The scintillation counters use crystals of NaJ-Tl phosphors. The device contains 3 such counters switched in parallel. Pulses arising in each of these counters are amplified by a linear amplifier, and their average number characterizes the total gamma-activity, which is continuously recorded by an automatic recording unit of the firs; channel of this device. The recording unit of the second channel caries out simultaneously recording of the hard component of gamma-radiation

card 2/4

TITLE:

48-4-48/48
Application of Scientillation Counters in Radiometric Equipment for Searching and Surveying Radioactive Ore Fields (Primeneniye stsintillyatsionnykh schetchikov v radiometricheskoy apparature dlya poiskov i razvedki mestorozhdeniy radioaktivnykh rud)

which is due mainly to thorium decay products. The ratio of these two channels characterizes the spectral composition of the gamma-radiation studied and indicates the nature of the activity of the emitting field.

These devices are now manufactured by the "GEOLOGORAZVEDKA" plant as 4-channel aerogeophysical stations of the ASG-38 type. The other two channels are used for measuring the increment of the full vector of the geomagnetic field and the absolute altitude of the flight.

This device exceeds in its sensitivity the last samples of aerosurveying equipment using 72 ionization gamma-counters by 2.5 times. The high sensitivity and low background in connection with the achieved directional selectivity of gamma-tion with the achieved directional selectivity of gamma-radiation make it possible to improve the effectiveness of aerosurveying uranium ores.

card 3/4

No references are cited.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDF

CIA-RDP86-00513R001962010014-7"

sov/5391

PHASE I BOOK EXPLOITATION

Polskovo-razvedochnaya radiometricheskaya apparatura (Prospecting Yakubovich, Aleksandr Lazarevich and Exploration Radiometric Equipment) Moscow, Gosgeoltekhizdat, 1960. 205 p. 3,000 copies printed.

Ed.: A. N. Yeremeyev; Ed. of Publishing House: S. S. Mukhin; Tech. Ed.: O. A. Gurova.

PURPOSE: This book is intended for geophysicists and geologists concerned with the prospecting, exploration, and extraction of mineral deposits, as well as for technical personnel engaged in related areas and students of geological exploration at schools of higher education.

The book is a development of the author's notes on meas-The book is a development of the author's notes on measurement methods and equipment written in 1954-1955 for the urement methods and equipment written and Exploration of course "Radiometric Methods of Prospecting and Exploration of Uranium Deposits" (Gosgeoltekhizdat, 1957). It is based on the COVERAGE:

card_1/8

Prospecting and Exploration (Cont.)

SOV/5391

author's lectures in courses for the improvement of geophysicists and geologists' qualifications, on Soviet and non-Soviet literature on the subject, and on the existing instructions and technical descriptions of radiometric instruments used in prospecting and exploration. Part I of the book deals with the principles of radiometric measurements and of the designs of equipment components. Part II contains a description of individual radiometric instruments in connection with their use in each of the existing radiometric methods. The author thanks Ye. I. Zaytsev, S. M. Przhiyalgovskiy, V. I. Kharlamov, and A. P. Fadeyev for their assistance, and V. L. Shashkin, who reviewed the book. Part I is accompanied by 20 references, all Soviet (including 2 translations), and Part II by 5 references, all Soviet.

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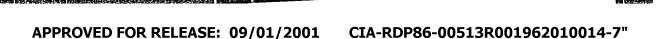
Foreword

3

Introduction

5

Card 2/8



YAKUBOVICH, A.L.; DYUKOV, A.I., otvetstvennyy red.; STEL'MAKH, A.M., red. izd-va; MADRINSKAYA, A.A. tekhn. red.; IL'ISKAYA, G.M., tekhn. red.;

[Scintillation radiometers and their application in geological prospecting] Stsintilliatsionnaia radiometricheskaia apparatura i vozmoshnosti ee primeneniia dlia geologicheskikh poiskov i vozmoshnosti ee primeneniia dlia geologicheskikh poiskov i razvedki. Moskva, Ugletekhizdat, 1958. 52 P. (MIRA 11:7) razvedki. Moskva, Ugletekhizdat, 1958. 52 P. (Prospecting—Geophysical methods—Equipment and supplies)

3.9200

36236 S/169/62/000/003/034/098 D228/D301

AUTHORS:

Yakubovich, A. L. and Zalesskiy, V. Yu.

TITLE:

The roentgeno-radiometric method and equipment for accelerating the analysis of the chemical composition

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 3, 1962, 28, abstract 3A229 (V sb. Radioakt. izotopy i yadern. izlucheniya v nar. kh-ve SSSR, v. 4, M., Gostoptekhizdat, 1961, 187-191)

TEXT: A roentgeno-radiometric method of analyzing the elemental composition of matter has been developed. It is based on excitation of the deep-orbital electrons of atoms by means of the gamma-ra-diation of radioactive isotopes and on measurement of the characteristic roentgen radiation of atoms, using a scintillation spectrometer in conjunction, as a rule, with Ross differential filters or an ionization spectrometer with a proportional counter. Some merits of the roentgeno-radiometric method as compared with the technique

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APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962010014-7"

s/169/62/000/003/034/098 D228/D301

The roentgeno-radiometric ...

of fluorescent roentgenospectral analysis are mentioned: 1) The ease with which the K-series of elements with high atomic numbers can be used for analysis which allows measurements to be made with small samples, thus eliminating errors connected with selective absorption; 2) the possibility of creating cheap and transportable equipment with an atomic supply; 3) a higher sequence sensitivity which for different elements lies in the range 0.1 - 1.0%. A defect of the method is its small resolving capacity. When using a scintillation counter it is possible to determine elements with atomic numbers, differing by 6 - 7 units from those of other elements present in commensurable quantities. The employment of proportional counters raises the method's resolving capacity and also allows elements with small atomic numbers to be analyzed. The radiation sources should possess: 1) A sufficiently high specific activity; 2) an adequately high discharge of radiation with a quantum energy sufficient to excite the atoms of the elements that are being determined; 3) the hard gamma- and beta-radiation; and 4) a half-life period of from 2 - 3 months to 1 - 2 years. These re-

Card 2/3

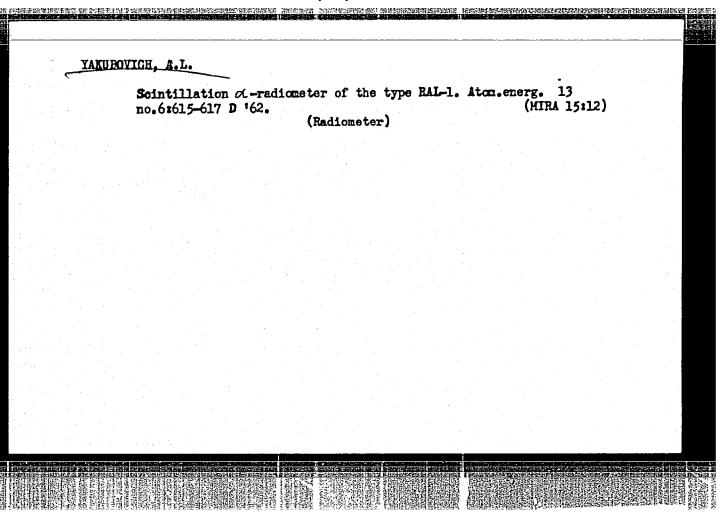
The roentgeno-radiometric ...

S/169/62/000/003/034/098 D228/D301

quirements are satisfied by Tu¹⁷⁰ and Tl²⁰⁴, etc. The authors used a Tu¹⁷⁰ source with an activity of 2.6 - 26 curies. Measurement methods in thin and saturated layers were tested together with two-layer measurements. The technique was tested in the analysis of ores, concentrates, and minerals for zircon, niobium, tantalum, total rare-earths, and other elments. / Abstracter's note: Complete translation. /

1

Card 3/3



5/032/62/028/007/003/011 B104/B102

AUTHORS:

Yakubovich, A. L., and Zaytsev, Ye. I.

TITLE:

Quick determination of boron, lithium, cadmium, and other elements with a device of the 'neutron' type

Zavodskaya laboratoriya, v. 28, no. 7, 1962, 819 - 823 PERIODICAL:

TEXT: The authors describe a device (Fig. 1) to determine the contents of B, K, Li, and a few other elements with large neutron absorption cross sections by measuring the reduction of thermal neutron flux in a sample. This has the special advantage that the attenuation is independent of the type of chemical bond of the elements in question. A disk of lithium glass (2 mm thick, 30 mm in diameter) enriched with Li⁶, together with a photomultiplier, are used as a detector of slow neutrons. The scintillations caused by the reaction Li6(n, c)H3 in the glass disk are photoelectrically recorded. The efficiency of recording is 97%. The polonium - beryllium source (1) has an activity of up to 10 µc; the error in measurement is 2%. Elimination of the influence of neutron Card 1/2

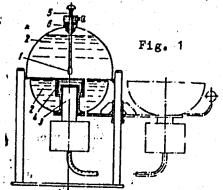
Quick determination of boron ...

S/032/62/028/007/003/011 B104/B102

absorption by other elements on the measurements is studied in detail. With a sample containing 10 - 20% humidity the error is 5 - 15%. There are 4 figures and 3 tables.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya (All-Union Scientific Research Institute of Mineral Raw Materials)

Fig. 1. Schematic diagram of the device. Legend: (1) source; (2) moderator; (3) counter; (4) crushed sample.



Card 2/2

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1. Ministerstvo geologii i okhrany nedr SSSR. (Geophysical instruments)	"Oreol" scintillation alpha-beta analyzer. His inform.VIMS no.1:45-47 *60.	ul.nauch	tekh. (MIRA	15:5)	
	1. Ministerstvo geologii i okhrany nedr SSSR. (Geophysical instruments)				

YAKUBOVICH, Aleksandr Lazarevich; NIKITINA, T.K., red.; MAZEL',

[Use of scintillation apparatus for fast analysis of
mineral resources] Uskoremnyi analiz mineral nogo syr'ya s
primeneniem stsintilliatsionnoi apparatury. Moskva, Cosatomizdat, 1963. 130 p.
(Minerals-Analysis)
(Scintillation counters)

(Scintillation counters)

YAKUBOVICH, A.L.; ZAYTSEV, Ye.I.; ANOSOV, V.V.

Multicomponent radiometric analysis of rock samples with the ISU-5K scintillation counter "Laura." Atom. energ. 15 no.3: 224-230 S *163. (MIRA 16:10)

(Radiometry) (Scintillation counters)

YAKUBOVICH, A.L.; ZAYTSEV, Ye.I.

Rapid determination of boron, lithium, cadmium, and some other elements by means of a "neutron"-type apparatus. Zav.lab. 28 no.7:819-823 162. (MIRA 15:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya.
(Chemistry, Analytical) (Neutrons-Capture)

S/169/61/000/012/031/089 D228/D305

un engen production dan beging production de la compressión de la

AUTHOR:

Yakubovich, A. L.

TITLE:

The "Rubin" portable field radiometer for mass searches for deposits of radioactive ores

PERIODICAL:

Referativnyy zhurnal, Geofizaka, no. 12, 1961, 39, abstract 12A376 (Byul. nauchno-tekhn. inform. M-vo geol. i okhrany nedr SSSR, 1959, no. 4 (21), 40-42)

TEXT: The radiometer has a carrying case with five gasfilled CTC-5 (STS-5) counters and a control-panel box in which the instrument's amplifying recording scheme and supply source are mounted. The amplification and formation of impulses from the counters is made by a system of thyratrons with a cold cathode. The instrument's supply is accomplished by a stabilized voltage of about 400 v. Provision is made for the light and

the acoustic indication. In addition, there is a system of the

Card 1/2

The "Rubin" portable...

S/169/61/000/012/031/089 D228/D305

objective scrutiny of readings by means of a threshold scheme.

Abstracter's note: Complete translation.

Card 2/2

YAKUBOVICH, A.L.

PHASE I BOOK EXPLOITATION SOV/5592

Vsesoyuznoye soveshchaniye po vnedreniyu radioaktivnykh izotopov i yadernykh izlucheniy v narodnom khozyaystve SSSR. Riga, 1960.

Radioaktivnyye izotopy 1 yadernyye izlucheniya v narodnom khozyaystve SSSR; trudy Vsesoyuznogo sovenchaniya 12 - 16 aprelya 1960 g. g. Riga, v 4 tomakh. t. 4: Poisk, razvedka i razrabotka poleznykh iskopayemykh (Radioactive Isotopes and Nuclear Radiation in the National Economy of the USSR; Tran-Nuclear Radiation in the National Economy of the USSR; Tran-Sections on the Symponium Held in Riga, April 12 - 16, 1960; in 4 volumes. v. 4: Prospecting, Surveying, and Mining of Mineral Deposits) Moscow, Gostoptekhizdat, 1961. 234 p. 3,640 copies printed.

Sponsoring Agency: Gosudarstvennyy nauchno-tekhnicheskly komitet Soveta Ministrov SSSR. Gosudarstvennyy komitet Soveta Ministrov SSSR po ispol'zovaniyu atomnoy energii

Eds. (Title page): N. A. Petrov, L. I. Petrenko, and P. S. Savitskiy; ed. of this volume: M. A. Speranskiy; Scientific ed.: M. A. Speranskiy; Executive Eds.: N. N. Kuz'mina and A. G. Ionel'; Card 1/11

SOV/5592

Radioactive Isotopes and Nuclear (Cont.)

Tech. Ed.: A. S. Polosina.

PURPOSE: The book is intended for engineers and technicians dealing with the problems involved in the application of radioactive isotopes and nuclear radiation.

COVFRAGE: This collection of 39 articles is Vol. 4 of the Transictions of the All-Union Conference of the Introduction of Radioactive Isotopes and Nuclear Reactions in the National Economy of the USSR. The Conference was called by the Gosudarstvennyy of the USSR. The Conference was called by the Gosudarstvennyy nauchno-tekhnicheskiy komitet Sovet Ministrov SSSR (State nauchno-tekhnicheskiy komitet Sovet Ministrov SSSR (State Planning Scientific-Technical Committee of the Council of Illnisters of the USSR), Academy of Sciences USSR, Gosplan SSSR (State Planning Committee of the Council of Ministers of the USSR), Gosudarstvernyy komitet Soveta Ministrov SSSR po avtomatizatsii i mashino-nyy komitet Soveta Ministrov SSSR po avtomatizatsii i mashino-stroyeniyu (State Committee of the Council of Ministers of the USSR for Automation and Machine Building), and the Council of Ministers of the Latvian SSR. The reports summarized in this publication deal with the advantages, prospects, and

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APPROVED FOR RELEASE: 09/01/2001

CTA-RDP86-00513R001967010014-

Radioactive Isotopes and Nuclear (Cont.)

development of radioactive methods used in prospecting, nurveying, and mining of ores. Individual reports present the veying, and mining of ores. Individual reports present the results of the latest scientific research on the development results of the latest scientific research on the development results of the theory, methodology, and technology of and improvement of the theory, methodology, and technology of radiometric investigations. Application of radioactive methods rin the field of engineering geology, hydrology, and the continue of engineering geology, hydrology, and the continue of engineering geology, hydrology, and the continue of contents.

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Dulashevich, Yu. F., G. M. Voskoboynikov, and L. V. Mizyukin.

Bulashevich, Yu. F., G. M. Voskoboynikov, and L. V. Mizyukin.

Gordeyev, Yu. I., A. A. Mikher, and D. M. Srebrodol'skiy. The Card 3/11

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Card 8/11	Shnurman, G. A. Experience With Radiometric Investigations			. !	
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5/081/61/000/020/034/089 B117/B147

AUTHORS:

Yakubovich, A. L., Zaytsev, Ye. I.

TITLE:

Radiometric determination of the Clarke content of uranium, radium, thorium, and potassium in rock samples

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 20, 1961, 122, abstract 20D134 (Razvedka i okhrana nedr, no. 2, 1961, 33 - 37)

TEXT: The authors suggest for the radiometric determination of minor amounts of U, Ra, Th, and K in rock samples to measure the g-radiation of the sample in the following four energy ranges (in kev): 100 (assentially, UX, radiation), 240 (ThB), 340 (RaB), and 1450 (K⁴⁰). If the conventional

equivalences of determinable elements in corresponding channels are known, the content of each determinable component may be calculated by solving a system of four linear equations. With the use of a sample layer of 8 mm thickness, the analytical results are independent of chemical composition and density of the sample. In the determination of radioactive elements (time of activity measurement ~ 30 min), the absolute error for U is $\sim 1-2\cdot 10^{-5}$ %, Card 1/2

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Radiometric determination of the...

S/081/61/000/020/034/089 B117/B147

for Ra and Th $\sim 1\cdot 10^{-4}\%$, and for K $\sim 0.5\%$. In the determination of K 40 from β -radiation, the time of measurement is 20 min, the absolute error 0.2%. [Abstracter's note: Complete translation.]

Card 2/2

S/081/61/000/024/024/086 B138/B102

AUTHORS: Yakubovich, A. L., Zalesskiy, V. Yu.

TITLE: The X-ray radiometric method and apparatus used for the

rapid analysis of chemical compositions

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 24, 1961, 144, abstract 24D2O (Sb. "Radioakt. izotopy i yadern. izlucheniya v nar. kh-ve SSSR, v. 4", M., Gostoptekhizdat, 1961, 187 - 197)

TEXT: A rapid method of analysis is suggested, which is based on the rirradiation of the specimen by a radioactive isotope with recording of the characteristic radiation from the elements of the specimen by a scintillation or proportional counter. The radiation of the element in question is distinguished by means of a single-channel pulse discriminator. Ross differential filters are used to increase the resolving power of the method. They consist of two plates made from elements with similar Z. The thickness of the plates is chosen so that the difference between the intensities of the radiation suppressed by the filter plates will be proportional to that in the range of the spectrum between the K-absorption

Card 1/2

The X-ray radiometric...

S/081/61/000/024/024/086 B138/B102

edges of the plate elements. The method requires no cumbersome apparatus and can be used in field corditions. The authors designed the apparatus BMM(-58 (VIMS-58) supplied with 10w from a 12v battery. Elements with Z/35-40 can be analysed with it. When the total rare-earth elements were determined in ores without filter the deviation from chemical analysis data was not more than 0.2 - 0.% for a total oxide content of up to 5%, and 0.4 - 0.6% for up to 10%. In the determination of 1 - 3% ZrO₂ with Ross filters, the deviations from chemical analysis were not more than 10 - 15%, and at higher ZrO₂ concentrations, 5 - 10%. The accuracy of analysis is not dependant on the amount of the associated element Nb in the sample. Tu¹⁷⁰ is used as the Y-radiation source (activity 2 - 8 curiæ). [Abstracter's note: Complete translation.]

Card 2/2

YAKUGOVICH H-M.

KHACHVANKYAN, M.A.; ORMONT, B.; YAKUBOVICH, A.M.

On the theory of recrystallization processes. II. Influence of the gas phase on structure transformations of chromic oxide. Zmr.fiz.khim. 21 no.5:575-580 My 147. (MLRA 6:12)

1. Fisiko-khimicheskiy institut im. Karpova, Moscow. (Crystallization) (Chromic oxide)

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807/4397

Nauchno-tekhnicheskoye obshchestvo priborostroitel'noy promyshlennosti

Priborostroyeniye i izmeritel'naya tekhnika (Instrument Mamufacture and Measurement Technique) Moscow, Mashgiz, 1960. 462 p. Errata slip inserted. 3,000 copies printed.

Ed.: A.N. Gavrilov, Doctor of Technical Sciences, Professor; Tech. Ed.: A. Ya. Tikhanov; Managing Ed. for Literature on Machine and Instrument Construction (Mashgiz): N.V. Pokrovskiy, Engineer.

FURPOSE: This collection of articles is intended for scientific and technical personnel in the instrument industry.

COVERAGE: The 23 articles deal with the present state and the outlook for the development of instrument manufacture and measurement technique. New problems of design, construction, and manufacture of instruments are discussed in the first two sections. Emphasis is given to problems of automation and mechanization of production and to the application of new techniques in program control, ultrasonics, and chipless working of metals. The third section deals with new

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Instrument Mamufacture ar	nd Measurement Technique 80V/4397	
theoretical aspects of	rvolving the use of ultrasonics and radio isotometrology and measurement technique are also personalities are mentioned. References accompany	discussed
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S/194/61/000/010/038/082 D256/D301

9,6000

AUTHORS:

Braslavskiy, D.A. and Yakubovich, A.M.

TITLE:

Improving dynamic characteristics of sensitive ele-

ments by feed-back coupling

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 10, 1961, 11, abstract 10 V94 (V sb. Priborostr.

i izmerit. tekhnika, M., Mashgiz, 1960, 55-76)

TEXT: Methods are considered of improving dynamic characteristics of electro-mechanical sensitive elements (galvanometers, logmeters, acceleration-meters, gyroscopic instruments etc.) by introducing a feed-back coupling. El.-mechanical and el. systems of feed-back coupling are discussed. Dynamic characteristics are investigated for a real feed-back coupling with parasitic time-constants present and also in case of a limited signal. 9 figures.

Abstracter's note: Complete translation

Card 1/1

YAKUBOVICH, A.M. (Moskva)

Operational amplifiers with zero drift compensation using the Prinz method. Avtom. i telem. 24 no.8:1117-1129 Ag '63.

(MIRA 16:8)

(Amplifiers (Electronics)) (Electronic computers)

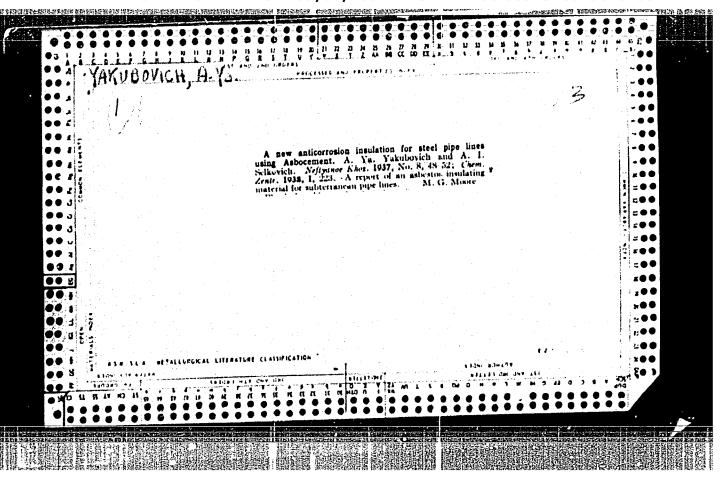
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ROUNDELON NA. MY NO 10241	
AUTHORS: Yakubovich, A. M.; Korol'kov, I. V.; Braslavskij; D. A.; Bubnov, I. A.;	
ALTOROV. D. V.	
TITLE: Operational amplifier. Class 42, No. 169878	
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 7, 1965, 131	
TOPIC TAGS: amplifier	
ABSTRACT: This Author Certificate presents an operational amplifier with parallel	
omplification charmels and with autoLatic compensation of less than three emplifica-	
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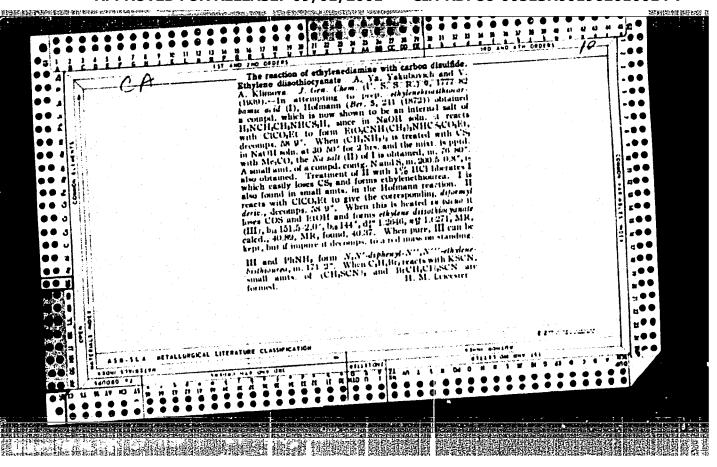
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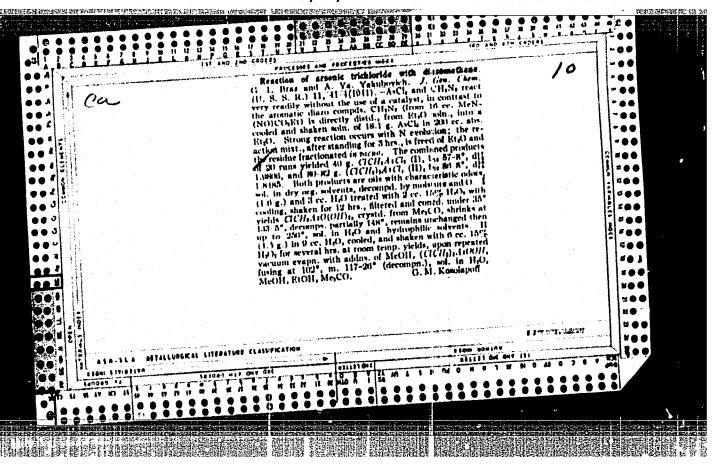
SOURCE CODE: UR/0065/67/000/001/0048/0049 (NA) ACC NR. AP7002729 AUTHOR: Malysheva, I. V.; Yakubovich, A. V. ORG: .TsNIL GUGMR TITLE: Change in the quality of oils during prolonged storage SOURCE: Khimiya i tekhnologiya topliv i masel, no. 1, 1967, 48-49 TOPIC TAGS: lubricating oil, lubricant additive, POL storage tank ABSTRACT: A study of the change in the quality of oils during prolonged storage in 2000-3000-m³ cylindrical steel containers in the northern and middle climatic zone was conducted along two lines: (1) experimental 3-year observation (1963-1965) of the state of MT-16p oil with AzNII-TSIATDM-1 and TSIATDM-339 additives, and DSp-11 oil with TSIATDM-339 additive for the purpose of revealing the behavior of additives during storage; (2) correlation of data on the change in the physicochemical properties of the oils (data for 1957-1965). An insignificant change of the physicochemical prop erties was observed. It was found that the following oils could be stored without any appreciable change in quality: MS-20 (5-7 years); MK-8 (5-8 years); MT-16p (4-5 years); DSp-11 (2 years). SUB CODE: 11/3/ SUBM DATE: none

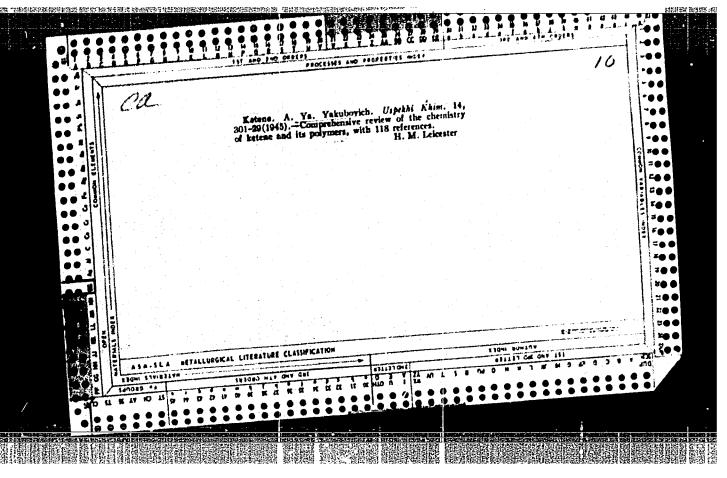
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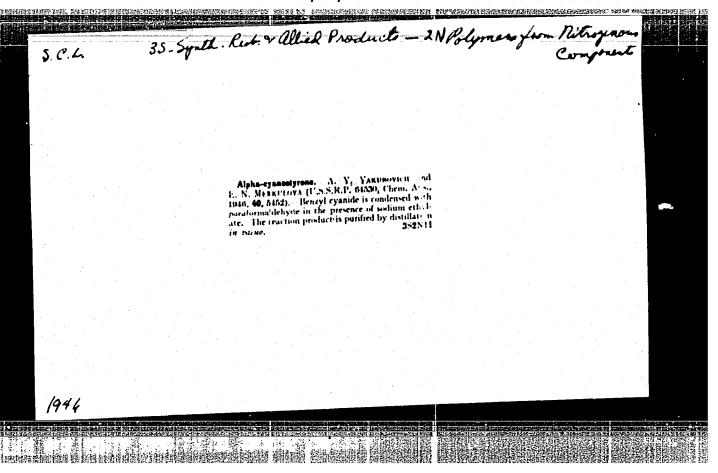
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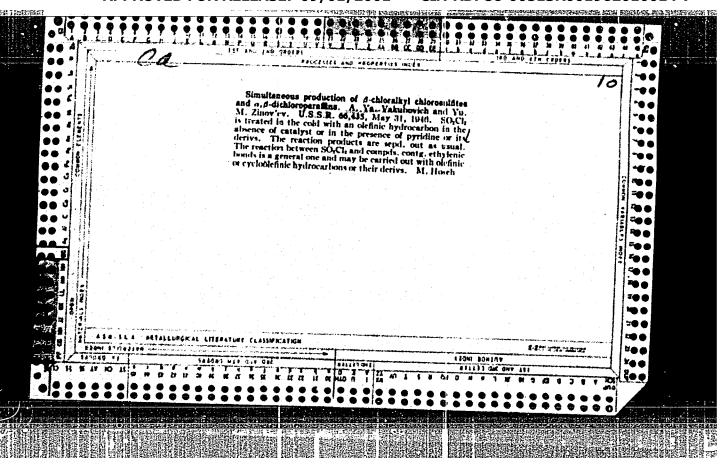


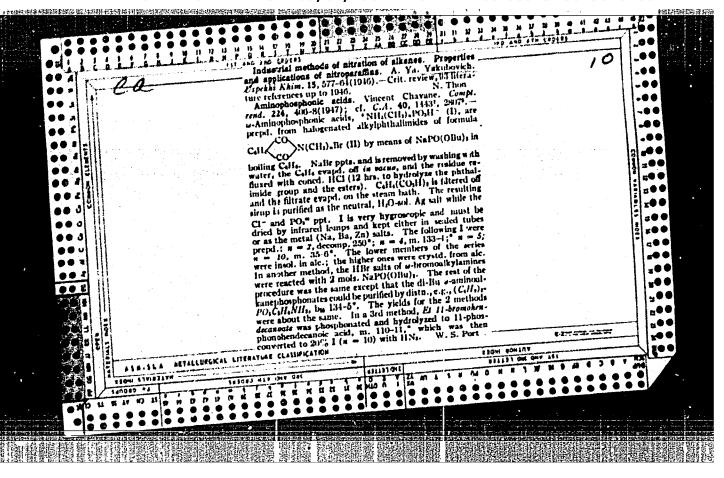


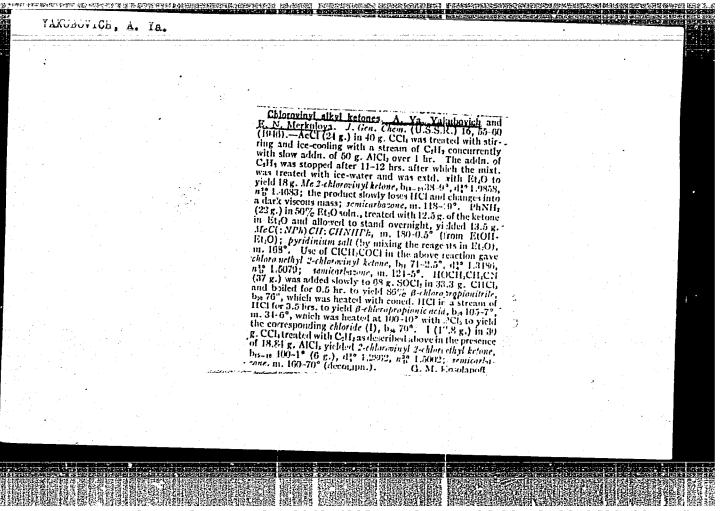


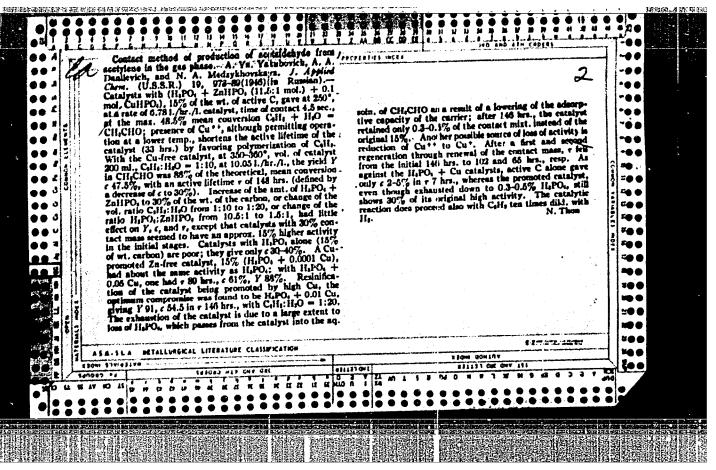




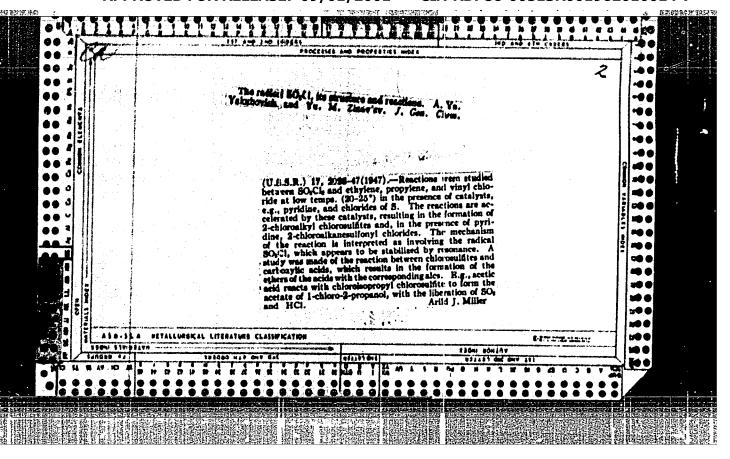




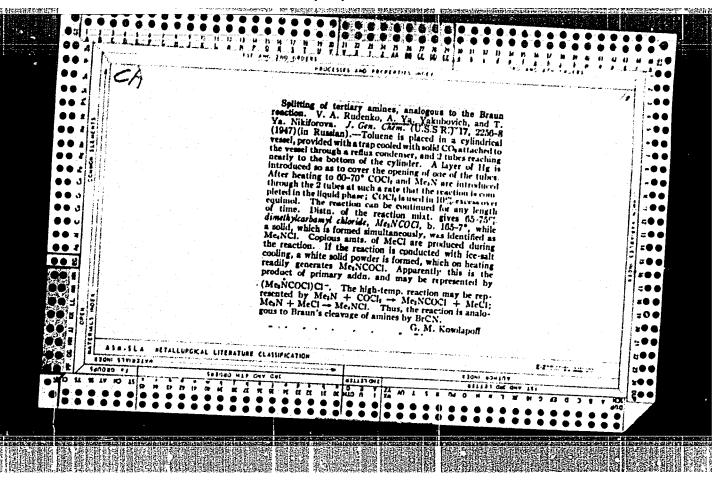




PA40T5 YAKUBOVICH, A. YA USSR/Chemistry - Sulfonation Bep/Oct 1947 Chemistry - Olefins "Sulfo-chlorination, a New Method of Sulfonation of Alkenes Properties and Uses of Alkene Calorosulfonides," A. Ya. Yakubovich, Yu. M. Zinov'yev, Moscow, 172 pp "Uspekhi Khimii" Vol XVI, No 5 Classic reaction of sulfonation ranks with the reaction of nitration as one of the basic processes as a result of which aromatic carbohydrates are changed into their various resultant products. Gives detailed and comprehensive account of chemical reactions which occur and illustrates various steps by means of chemical formulas.



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PA 8/49 T60

USSR/Chemistry - Acridine
Chemistry - Synthesis May 48

"Some Experiments on the Synthesis of Abridine," A. Ya. Yakubovich, M. Nevyabomskiy, 3 3/4 pp

"Zhur Obshch Khim" Vol XVIII (LXXX), No 5

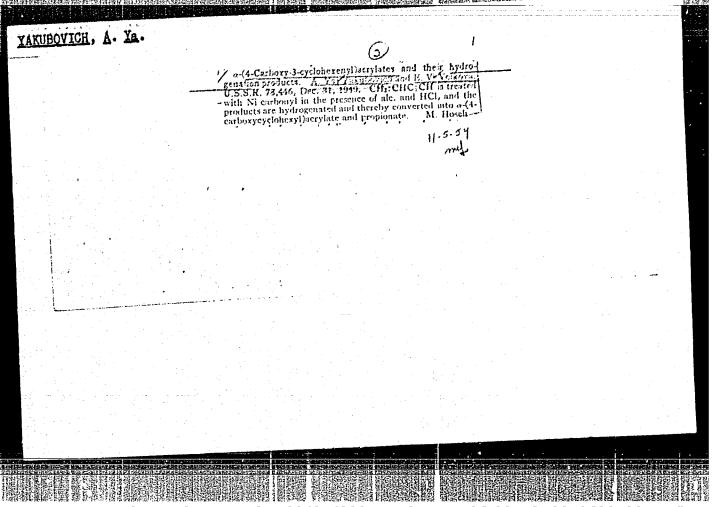
YARUDOVICH, A. YA.

Acridine can be prepared by oxidizing phenyltolylamine with lead oxide or, better, with a mixture of lead and copper oxides. Yield is 20 - 25% of theoretical. Discridine is formed when hydrogen acts on ms-chloracridine, in the presence of a Pd-BaSO4 catalyst. Discridine or acridine is formed when active hydrogen acts on ms-chloracridine, depending on the conditions of the reactions. Submitted 6 Jan 1947.

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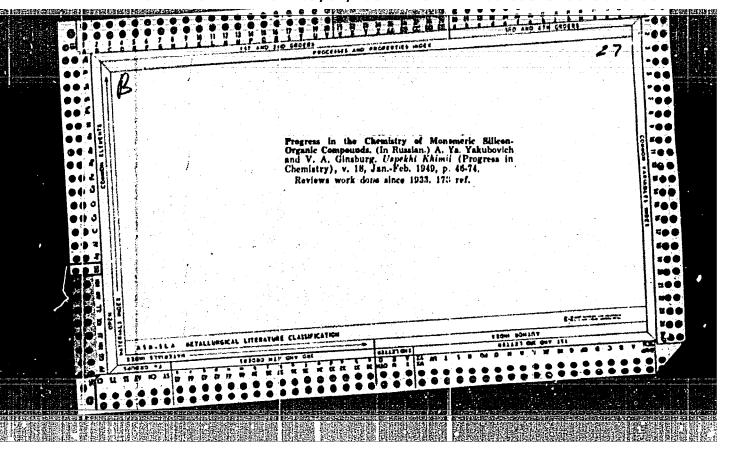
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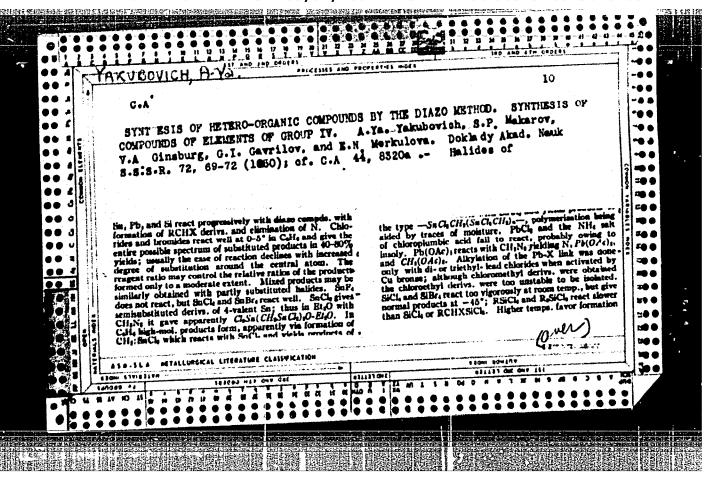


YAKUBOVICH,	uses/Chemistry - Mitrosyl Chloride Apr 49 (Comtd) and 1, 1, 2, 2-tetrachloro-2-nitroethene. In most cases the union of the nitrosyl chloride proceeds in comformity with the polarization of the ethylene and N-Cl bonds, the negative haloid directed to the positive carbon atom, and the positive nitroso group directed to the negative chloride and the effect of substituted halogens on the nitrosooxime rearrangement. Submitted 26 Apr 47.	Investigates the reaction of nitrosyl chloride with isobutylene, allyl chloride, vinyl chloride, inylidene chloride, and trichloroethylene; ine- parse the dimers of the eximes of chlorisobutric aldehyde, 1, 2-dichloro-3-nitropropene, 1, 1-dich- lero-2-nitroethene, 1, 1-dichloro-2-nifraethylene, 167/40718	USER/Chemistry - Mitrosyl Chloride Apr 49 01-211.5 The Structure of Mitrosyl Chloride and Its Con- densation With Olerins, " A. Ta. Takubovich, P.A. L. Lemke, 102 pp

TAKUBOBVICH, A. TA. & CTHERS

RT-1100 (Syntheses of hetero-organic compounds of the aliphatic series by the diaz method. Syntheses of compounds of elements of Group V) Sintez elementoorganicheskikh soedinenii alifaticheskogo riada diazometodom. Sintez soedinenii elementov V gruppy.

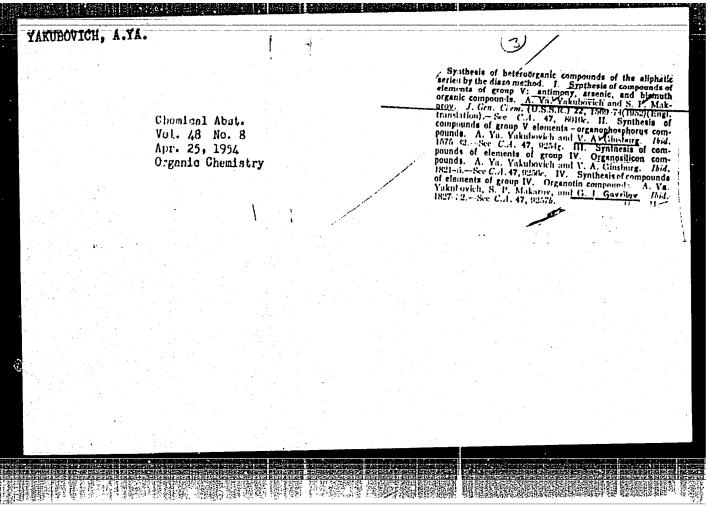
Doklady Akademii Nauk SSSR, 71(2): 303-305, 1950

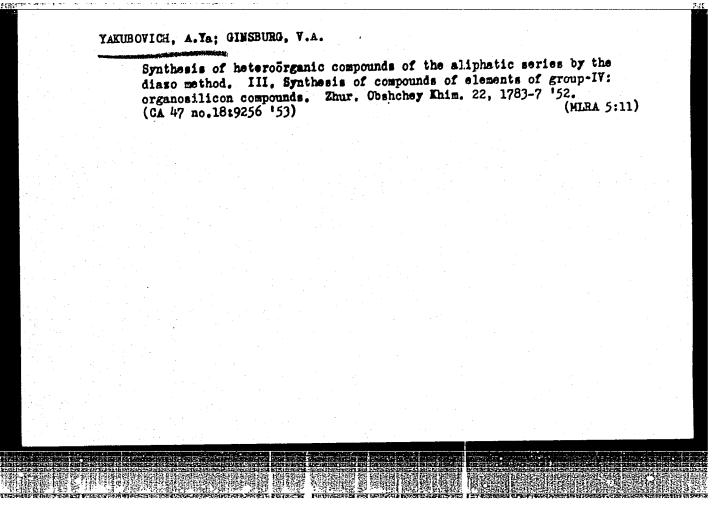


YAKUBOVICH, A.Ya., GINCHUIG, V.A.

"Some Caharcteristics of the Derivates of Trichlormethylphosphonic Acid"

Dok Ak Hauk SSSR No 2, Jan 1952 pp 273-275 w-22628





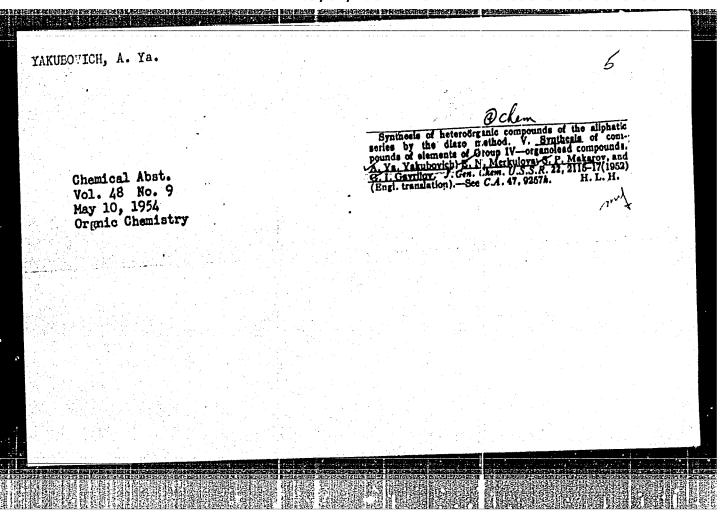
YAKUBOVICH, A.Ya.; MAKAROV, S.P.; GAVRILOV, G.I.

Synthesis of heterogranic compounds of the aliphetic series by the diano method. IV. Synthesis of compounds of elements of group IV. Organctin compounds. Zhur. Obshohey Khim. 22, 1788-93 '52.

(CA 47 no.1819257 '53)

(MLRA 5:11)

YAKUBOVICH A. YA.						2)8142	ieforal de de d
(CA 47 no.18:9257 '53)	230T42	mation of corresponding chloro-methyl of lead. Diazoethane, in the presence pronze, reacts with triethyl-chloro lead unstable triethyl-a-chloro-ethyl lead comp into tetraethyl lead and lead chlead tetrassistate reacted readily with thane to form methylene diacetate and acetate.	Ine reaction of lead organic chlorides with dia- zomethane took place only in the presence of the catalyst, cooper bronze, which brought about the decompn of the aliphatic diazo compds and led to	ch was conducted into the man with lead chloride, windrochloric acid, with lead and trieth	," A. Ya. Yakubovich, Ye. 1karov and G. I. Gavrilov 1m" Vol 22, No 11 pp 2060	"Synthesis of Organoelemental Compounds of the Alighatic Series by the Diazo Method: V. Synthesis of Compounds of Elements in Group IV Lead Or-	USSR/Chemistry - Lead Organic Nov 52



YAKUBOVICH, A.YA., GINSBURG, V.A.

Phosphinic Acids

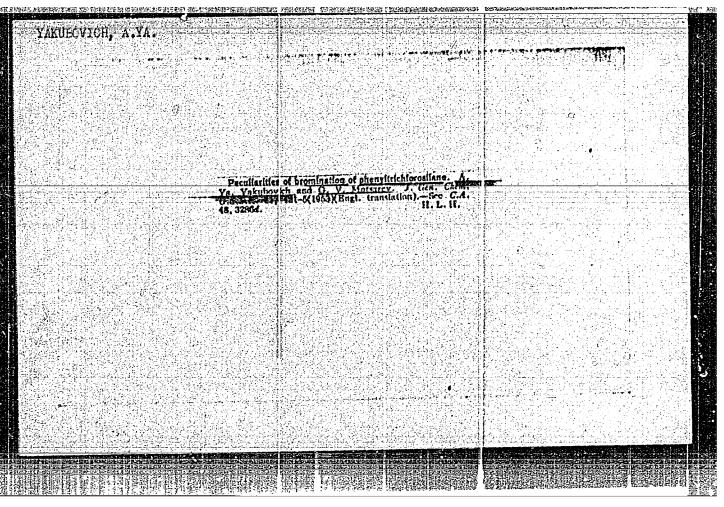
Some properties of derivation of trichloromethyl-phosphinic acid. Dok. AN SSSR, 82, No. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952. UNCLASSIFIED.

YAKUBOVICH, A. YA.	Addn of nickel carbonyl takes place according to Markovnikov's rule, i.e., the single reaction product will always be a deriv of &-substituted acrylic acid, according to the formula 4RC:CH+NI(CO)4+R'OH+2HCI=4CH2=C-COOR+NICI2+H2. Dipropargyl, in contrast to the other compds, does not react well, giving a small yield of an ester of a monocarboxylic acid which contains an ethylene bond. It was not studied further. Presented by Acad A. N. Nesmeyanov.	"The Reaction of NickelCarbonyl With Monoalkyl Acetylenes," A. Ya. Yakubovich, Ye. B. Volkova Acetylenes," A. Ya. Yakubovich, Ye. B. Volkova "Dok Ak Nauk SSSR," Vol IXXXIV, No 6, pp 1183-1186 "Dok Ak Nauk SSSR," Vol IXXXIV, No 6, pp 1183-1186 The investigation was concerned with detg the laws governing the reaction between nickel carbonyl and monoalkyl acetylenes. Expis were carried out with methyl, butyl-, and vinyl acetylene, and dipropargyl. It was found that the reactivity of the 2 reagents toward each other decreases, as the mol wt of the acetylene hydrocarbon increases, so that the temp required for reaction increases with the mol wt.	USSR/Chemistry - Acetylene Derivatives 21 Jun 52

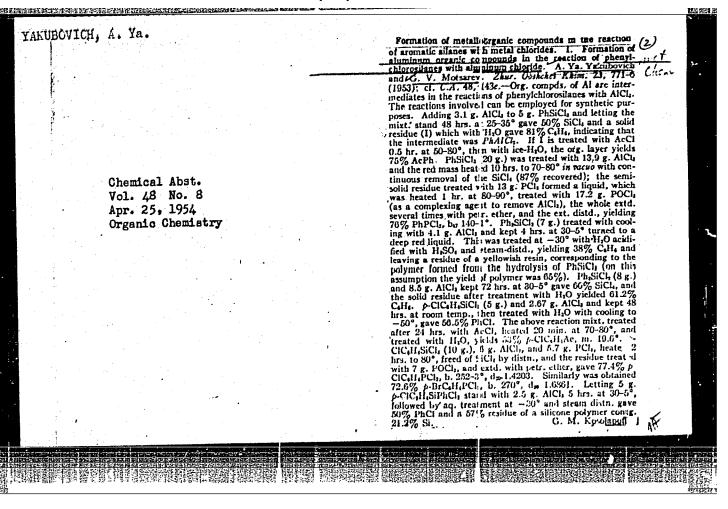
Chemical Abet. Vol. 48 Ho. 6 Mar. 25, 1954 Organic Chemiatry	A. Ya. Yasuboveh and G. V. Motsafer The Orizons A. Ya. Yasuboveh and G. V. Motsafer The Orizons Fasicl, and C. B., powd Fe over 1 b-2 hrs. causes an experime reaction (197); ifter 1 hr. on the stemm hath and historing, the mixt par 20 3 g Phill. and 60 g p. o. H. Si.Cl., be 105-0° inter resists be 15-2 hrs. causes an experiment of the mixt gar 20 3 g Phill. and 60 g p. o. H. Si.Cl., be 105-0° inter resists be 15-2 hrs. causes an experiment gains be water 6 hrs. at 150-60° gave p. Br.Colf. If the ann. of Br is double f, the reaction yields 4 g. p. Colf. Br., some 10 g. reside of polymerte (C.H. Hristo, i. some 10 g. p. Br.Colf.SiCl. and 122 g. (70%) 1.4Br.Colf. SiCl., be 144-6° du 1 955 (heated with Br water as above this gave 1 g.4-Colf.Br., 1 44°, while heating with AICl. have an Colf.Br., b. 200 at 1 9504. The use of 22 modes C.H.Br., Br.Colf.BiCl., at 1 decompon products. Similarly unsuccessful was the attempted brommation of 2.4-Br. C.H.SiCl. in the presence of Fe or SbCl., as C.H.Br., m. 175-6° (apparently the 1.2 g.5-isomer) was the sole product, besides tar. The s.porler tation by the SiCle group was unexpected. G. M. Kosolepoff	
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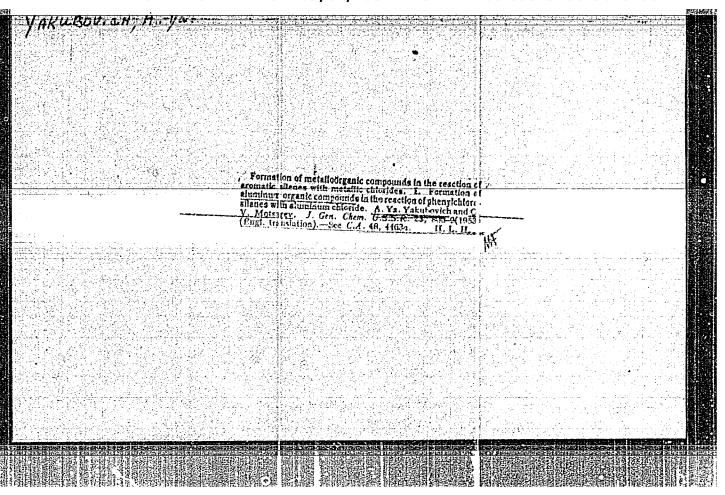
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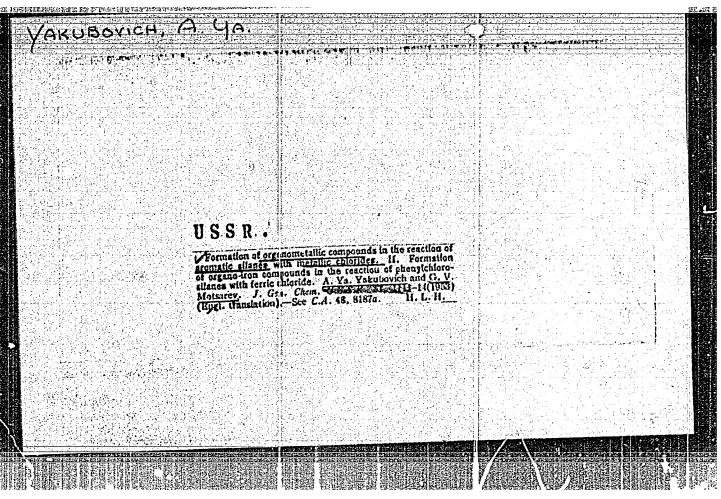
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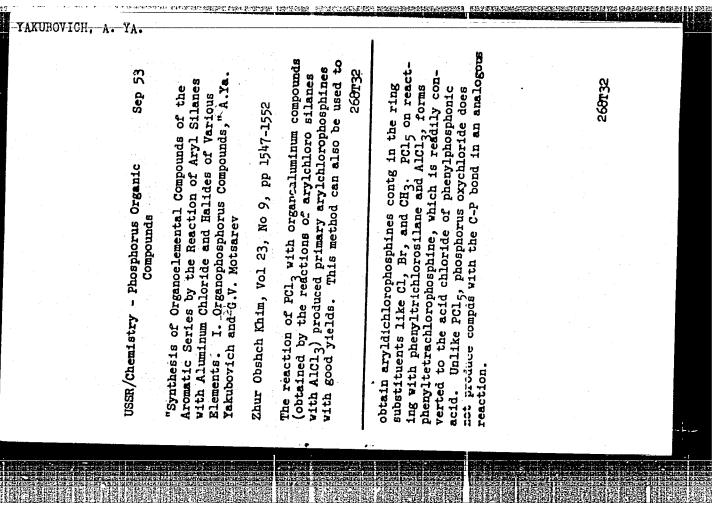
XXXXDOLICH, A. XA.	reacts very readily with FeCl ₃ , splitting off one phenyl radical. Discusses the reaction mechanism for the splitting of II with ferric chloride, assuming the formation of unstable org iron compds as intermediate products. 273T28	Zhur Obshch Khim, Vol 23, No 5, pp 1059-1053 Studied the reaction of ferric chloride with phenyltrichloresilane (I) and with diphenyldichlorosilane (II). It was found that II, in contrast to I, silane (II).	tion of Org tion of Aro II. Format Geraction o	USSR/Chemistry - Silicon Organic Jun 53 Compounds	
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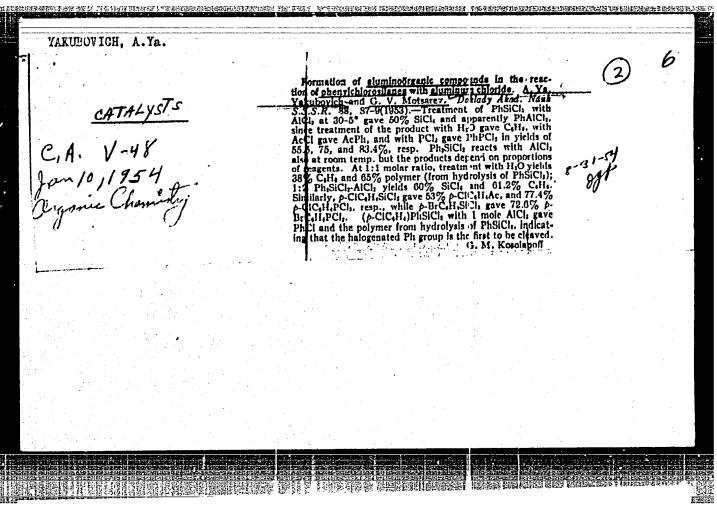
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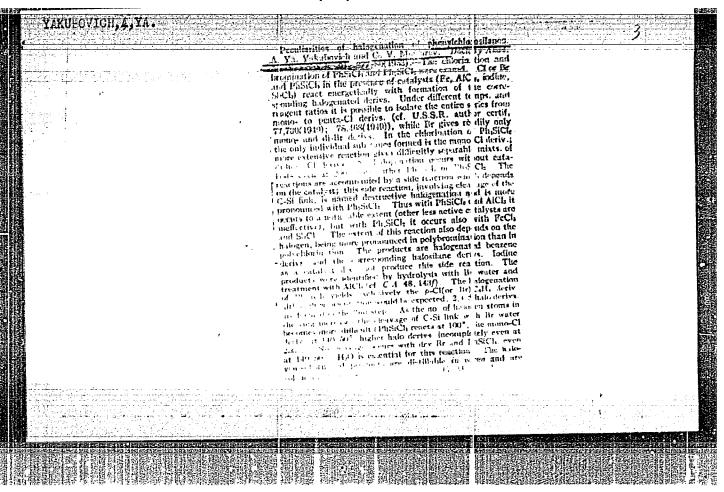


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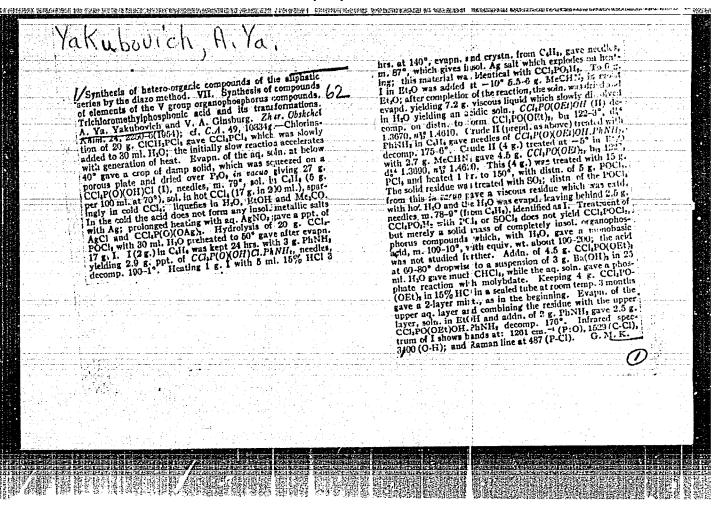


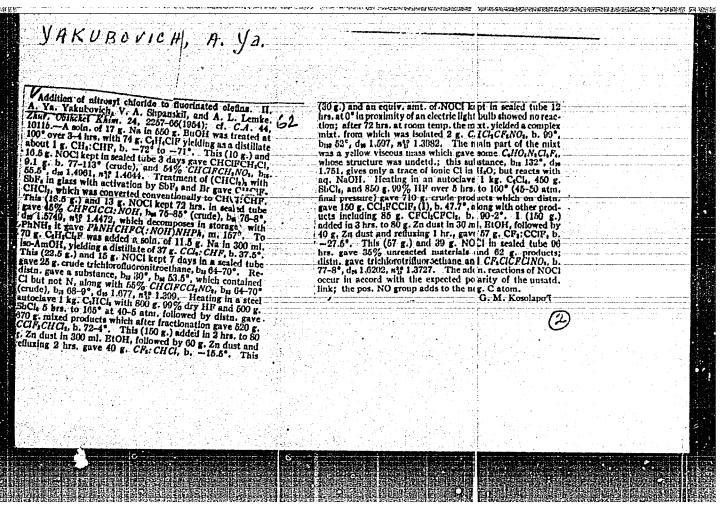




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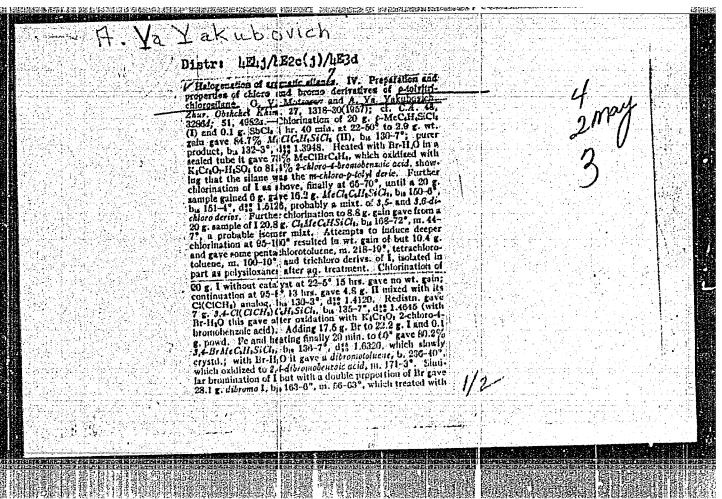


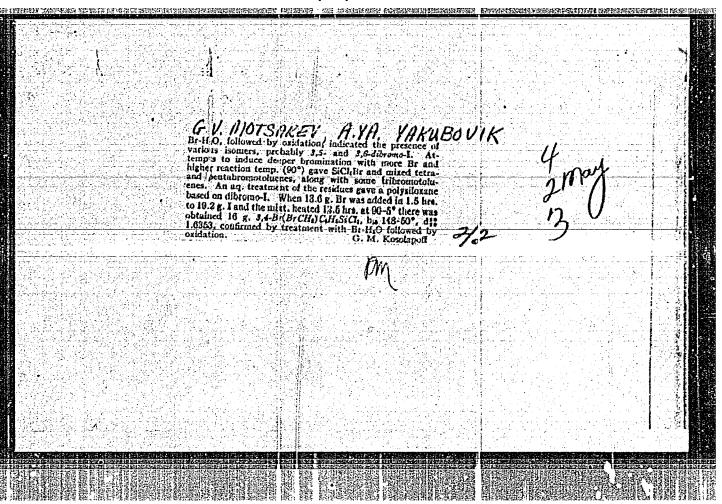
YAKUBOVICH, A. Ya. USSR/Chemistry 1/1 Card Yakubovich, A. Ya., Shapnskiy, V. A., and Lemke, A. L. Authors and the second second second second Condensation of fluorinated olefins with nitrosyl chloride Title Dokl. AN SSSR, 96, Ed. 4, 773 - 776, June 1954 Periodical The condensation of fluorinated olefins (vinyl fluoride, 1, Abstract 2-fluorochloro-ethylene, 1-fluoro-2, 2-dichloroethylene. 1-difluoro-2-ethylene chloride, trifluorochloro-ethylene) was carried out by a conventional method at room temperature. The molar ratio of the regent was 1:1. During fractional distillation of the reaction mixture, the authors obtained a compound with boiling point of 55.5° plus a nitrogen-free substance (1, 2-dichloro-1-fluoroethane). Analysis, study of the molecular weight, and properties of this substance showed that it is a nitro-compound of the CallaFCINO2 composition. One reference. Institution: Academician I. L. Knunyant, March 10, 1954 Presented by:

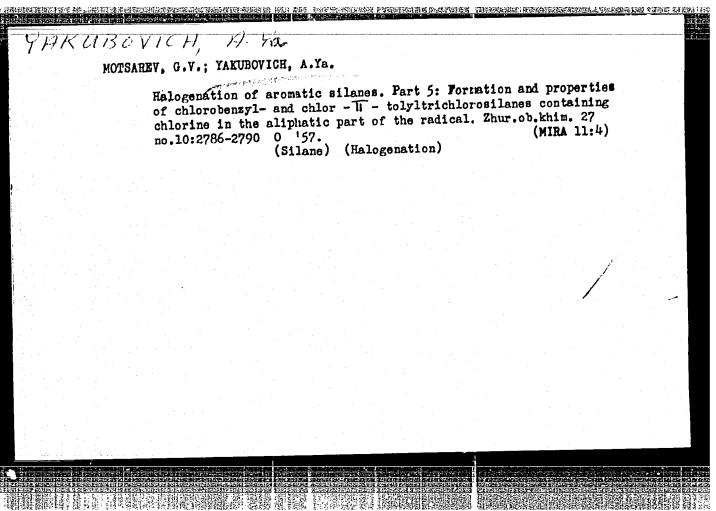
USER/ Chemistry - Letal halides Pub. 22 - 34/63 Card 1/1 , Yakubovich, A. Ya., and Motsarev, G. V. Authors Effect of metal halides on the change in orientation of the silyl chloride Title group and the mechanism of their dearylation effect. Periodical : Dok. AN SSSR 99/6, 1015-1018, Dec 21, 1954 Experiments show that the SiCl3-group in phenyltrichlorosilare, due to Abstract its electron-acceptor properties, should serve as an orientation factor of the second order and should direct other substitutes into meta-position with respect to itself causing the reby a general deactivation of the benzene mucleus during reactions of electrophilic substitution. The so-called dearylation effect of various metal chlorides, with respect to phenylchlorosilanes, is explained. The specificity of reactions leading to the displacement of aromatic silenes in the presence of metal halides is explained by the formation of specific addition compounds of arylchlorosilanes with metal halides. Nin; references: 6-USSR; 2-German and 1-USA (1900-1954). Institution: Academician I. L. Knunyants, July 15, 1954 Presented by:

YAKUBOVICH, A.Ya.; MOTSAREV, G.V.

Effect of the nature of the catalyst on the flew of the destructive halogenation of phenylchleresilanes. Zhur.eb.khim. 25 no.9:1748-1752 S '55. (Halogenation) (Silanes) (MIRA 9:2)







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79-2-5/64

AUTHORS:

Yakubovich, A. Ya., Soborovskiy, L. Z., Huler, L. I., Payernark,

v. s.

TITLE:

Syntheses of Vinylmonomers. 1. &-Substituted Derivatives of Vinyl-phosphinic Acid (Sintezy vinilovykh monomerov. 1. &-zameshchennyye

proizvodnyje vinilfosfinovoy kisloty)

PERIODICAL:

Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 2, pp. 317-319 (USSR)

ABSTRACT:

of the alkenylphosphine derivatives the \$\alpha\$-methylvinylphosphinic acid (reference 1), the diethylether of \$\alpha\$-carbomethoxyvinylphosphinic acid (reference 2) and the diethylether of cyanovinylphosphinic acid (reference 3) are known. The authors synthesized some derivatives analogous to the above-mentioned companies by the method of phosphinoxidation. In the oxidation of the mixture of methyl acrylate and phosphorus trichloride by means of oxygen the chlorine anhydride of chlorocarbomethoxyethylphosphinic acid forms. The attempts to produce an analogous chlorine-substituted derivative of vinylphosphinic acid, which was not described in publications, according to the method by Pudovik (reference 6) from vinylidene chloride and dialkylphosphite failed. Chlorocyanoethylphosphine derivatives by whose dehydrochlorination the compounds of cyanovinylphosphine can be obtained were synthesized by means of phosphinoxi-

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79-2-5/64
Syntheses of Vinylmonomers. 1. X-Substituted Derivatives of Vinylmonomers. Acid

dation of vinyl cyanide. The liquid isomer under the influence of triethylamine easily separates the hydrogen-chloride elements and forms the dimethylester of cyanovinylphosphinic acid; the position of the cyanogen group has not yet been determined for this compound. The attempts of synthesizing the chlorocyanoethylphosphine derivatives by addition of phosphorus pentachloride to vinyl cyanide did not yield any positive results. Thechlorination of acrylonitryl with the formation of dichloropropionitryl can even be observed at -(15 - 20°C). The dimethylether of vinylphosphinic acid, not described earlier, was synthesized according to the usual method. The others of the substituted vinylphosphanic acid form polymers and copolymers with other vinylmonomers. Summary: 1) By phosphinoxidation of methylacrylate and acrylonitryl, chlorine anhydrides of the corresponding chlorocarbomethcxy- and cyanochloro-substituted ethylphosphinic acids were obtained. On treatment of the latter their ether was obtained. 2) By dehydrochlorination of the above--mentioned ethers the cyanogen chloride and carbon chloride methoxy-substituted ethers of vinylphosphinic acids were synthesized. There are 6 references, 4 of which are Slavic.

SUBMITTED: AVAILABLE: Card 2/2

April 25, 1957 Library of Congress